Kam 09/407,605

```
=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 08:44:45 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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```



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FILE COVERS 1907 - 4 Mar 2003  VOL 138 ISS 10
FILE LAST UPDATED: 3 Mar 2003  (20030303/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d que l7
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                CTG|AAG|ATG|TTC|CCC|AGC|ACC|TGG|TAC|GTG){150-}/SQSN
L6            7 SEA FILE=REGISTRY L1 AND ((104162-48-3/BI OR 57-88-5/BI OR
                207241-25-6/BI OR 120178-12-3/BI OR 12629-01-5/BI OR 138415-12-
                0/BI OR 138415-13-1/BI OR 138756-33-9/BI OR 202484-87-5/BI OR
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                -8/BI OR 475270-26-9/BI OR 475270-27-0/BI OR 475270-28-1/BI OR
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L7            9 SEA FILE=HCAPLUS L6
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Search completed by David Schreiber 308-4292

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=> fil reg
FILE 'REGISTRY' ENTERED AT 08:45:28 ON 04 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    2 MAR 2003  HIGHEST RN 496764-40-0
DICTIONARY FILE UPDATES:   2 MAR 2003  HIGHEST RN 496764-40-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d sqide 16 1-7

L6   ANSWER 1 OF 7  REGISTRY  COPYRIGHT 2003 ACS
RN   475304-75-7  REGISTRY
CN   DNA (Ptilosarcus gurneyi green fluorescent protein gene plus 3'flank)
     (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   2: PN: WO02090535 FIG: 3 claimed DNA
FS   NUCLEIC ACID SEQUENCE
SQL  717
NA   158 a   229 c   220 g   110 t

PATENT ANNOTATIONS (PNTE):
Sequence |Patent
Source   |Reference
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Not Given|WO2002090535
         |claimed FIG
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           ========== ========== ========== ========== ==========
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Search completed by David Schreiber 308-4292

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       451 ttcgaggtgg tgtacatgaa cagcggcgtg ctggtgggcg aggtggacct
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           ========== ========== ========== ========== ==========
       551 tctaccgcag caagggcggc gtgaaggagt tccccgagta ccacttcatc
           ========== ========== ========== ========== ==========
       601 caccaccgcc tggagaagac ctacgtggag gagggcagct tcgtggagca
           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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HITS AT:   1-717
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS, TOXCENTER
                1 REFERENCES IN FILE CA (1962 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6   ANSWER 2 OF 7  REGISTRY  COPYRIGHT 2003 ACS
RN   353572-08-4  REGISTRY
CN   DNA (synthetic complement decay-accelerating factor-specifying cDNA
     fragment) (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   1: PN: JP2001211882 SEQID: 1 claimed DNA
FS   NUCLEIC ACID SEQUENCE
SQL  960
NA   188 a   394 c   267 g   111 t

PATENT ANNOTATIONS (PNTE):
Sequence |Patent
Source   |Reference
=========+==========
Not Given|JP2001211882
         |claimed
         |SEQID 1


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        51 gctgccccgc ctgctgctgc tggtgctgct gtgcctgccc gccgtgtggg
           ========== ========== ========== ========== ==========
       101 gccgcagctg cgaggtgccc acccgcctga acagcgccag cctgaagcag
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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Search completed by David Schreiber 308-4292

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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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HITS AT:   1-960

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS
                1 REFERENCES IN FILE CA (1962 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6   ANSWER 3 OF 7  REGISTRY  COPYRIGHT 2003 ACS
RN   258258-38-7  REGISTRY
CN   DNA (synthetic human angiostatin-specifying) (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   5: PN: WO0006759 PAGE: 40 claimed DNA
FS   NUCLEIC ACID SEQUENCE
SQL  1362
NA   320 a   520 c   383 g   139 t

PATENT ANNOTATIONS (PNTE):
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Source   |Reference
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Not Given|WO2000006759
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         |40


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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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       801 cagcagcggc cccacctacc agtgcctgaa gggcaccggc gagaactacc
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           ========== ========== ========== ========== ==========
       901 gcccagaccc cccacaccca caaccgcacc cccgagaact tcccctgcaa
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           ========== ========== ========== ========== ==========
      1201 tggagcagca tgacccccca ccgccaccag aagacccccg agaactaccc
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      1251 caacgccggc ctgaccatga actactgccg caaccccgac gccgacaagg
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HITS AT: 1-1362
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2003 ACS
RN **211681-52-6** REGISTRY

Search completed by David Schreiber 308-4292

CN DNA (synthetic clone pIL0550B gene IL-2) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
SQL 462
NA 113 a 157 c 122 g 70 t

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HITS AT: 1-459

RELATED SEQUENCES AVAILABLE WITH SEQLINK
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2003 ACS
RN **209056-07-5** REGISTRY
CN DNA (synthetic human insulin-like growth factor I cDNA) (9CI) (CA INDEX NAME)
FS NUCLEIC ACID SEQUENCE
SQL 462
NA 89 a 176 c 134 g 63 t

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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
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Search completed by David Schreiber 308-4292

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       451 taccgcatgt ga
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HITS AT:   1-459

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS, TOXCENTER, USPATFULL
                1 REFERENCES IN FILE CA (1962 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6   ANSWER 6 OF 7  REGISTRY  COPYRIGHT 2003 ACS
RN   207241-26-7  REGISTRY
CN   DNA (synthetic human interleukin 12 p40 subunit cDNA) (9CI)  (CA INDEX
     NAME)
OTHER NAMES:
CN   DNA (human interleukin 12 p40 subunit synthetic gene)
CN   PN: WO9947678 SEQID: 3 claimed DNA
FS   NUCLEIC ACID SEQUENCE
SQL  987
NA   220 a   324 c   318 g   125 t

PATENT ANNOTATIONS (PNTE):
Sequence |Patent
Source   |Reference
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Not Given|WO9947678
         |claimed
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SEQ      1 atgtgccacc agcagctggt gatcagctgg ttcagcctgg tgttcctggc
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       601 gccgccgagg agagcctgcc catcgaggtg atggtggacg ccgtccacaa
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       851 agaagaagga ccgcgtgttc accgacaaga ccagcgccac cgtgatctgc
       901 cgcaagaacg ccagcatcag cgtgcgcgcc caggaccgct actacagcag
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HITS AT:   1-477

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS, TOXCENTER, USPATFULL
                2 REFERENCES IN FILE CA (1962 TO DATE)
                2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L6   ANSWER 7 OF 7  REGISTRY  COPYRIGHT 2003 ACS
RN   202485-81-2  REGISTRY
CN   DNA (synthetic mammalian codon-optimized human terminal
     deoxyribonucleotidyltransferase (telomeric DNA) subunit p105 cDNA) (9CI)
     (CA INDEX NAME)
FS   NUCLEIC ACID SEQUENCE
SQL  2277
NA   557 a   723 c   781 g   216 t

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           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
       151 accttcagca tgctggagga cgtgcagcgc gccctgaagg agatcaccac
           ========== ========== ========== ========== ==========
       201 cttcgagggc tgcaagatca acgtgaccgt ggccaagaag aagctgcgca
           ========== ========== ========== ========== ==========
       251 acaagaccaa ggagaagggc aagaacgaga acagcgagtg ccccaagaag
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           ========== ========== ========== ========== ==========
       351 catccgcaac ctgagcttca agtgcagcga ggacgacctg aagaccgtgt
           ========== ========== ========== ========== ==========
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           ========== ========== ========== ========== ==========
       451 ggcaagatgc gcggcttcgg cttcgtgcag ttcaagaacc tgctggaggc
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       701 acgacgacga cgacgacgac gacgaggagg acggcgtgtt cgacgacgag
           ========== ========== ========== ========== ==========
       751 gacgaggagg aggagaacat cgagagcaag gtgaccaagc ccgtgcagat
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       801 ccagaagcgc gccgtgaagc gccccgcccc cgccaagagc agcgaccaca
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       851 gcgaggagga cagcgacctg gaggagagcg acagcatcga cgacggcgag
```

Search completed by David Schreiber 308-4292

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      901 gagctggccc agagcgacac cagcaccgag gagcaggagg acaaggccgt
          ========== ========== ========== ========== ==========
      951 gcaggtgagc aacaagaaga agcgcaagct gcccagcgac gtgaacgagg
          ========== ========== ========== ========== ==========
     1001 gcaagaccgt gttcatccgc aacctgagct tcgacagcga ggaggaggag
          ========== ========== ========== ========== ==========
     1051 ctgggcgagc tgctgcagca gttcggcgag ctgaagtacg tgcgcatcgt
          ========== ========== ========== ========== ==========
     1101 gctgcacccc gacaccgagc acagcaaggg ctgcgccttc gcccagttca
          ========== ========== ========== ========== ==========
     1151 tgacccagga ggccgcccag aagtgcctgc tggccgccag ccccgagaac
          ========== ========== ========== ========== ==========
     1201 gaggccggcg gcctgaagct ggacggccgc cagctgaagg tggacctggc
          ========== ========== ========== ========== ==========
     1251 cgtgacccgc gacgaggccg ccaagctgca gaccaccaag gtgaagaagc
          ========== ========== ========== ========== ==========
     1301 ccaccggcac ccgcaacctg tacctggccc gcgagggcct gatccgcgcc
          ========== ========== ========== ========== ==========
     1351 ggcaccaagg ccgccgaggg cgtgagcgcc gccgacatgg ccaagcgcga
          ========== ========== ========== ========== ==========
     1401 gcgcttcgag ctgctgaagc accagaagct gaaggaccag aacatcttcg
          ========== ========== ========== ========== ==========
     1451 tgagccgcac ccgcctgtgc ctgcacaacc tgcccaaggc cgtggacgac
          ========== ========== ========== ========== ==========
     1501 aagcagctgc gcaagctgct gctgagcgcc accagcggcg agaagggcgt
          ========== ========== ========== ========== ==========
     1551 gcgcatcaag gagtgccgcg tgatgcgcga cctgaagggc gtgcacggca
          ========== ========== ========== ========== ==========
     1601 acatgaaggg ccagagcctg ggctacgcct tcgccgagtt ccaggagcac
          ========== ========== ========== ========== ==========
     1651 gagcacgccc tgaaggccct gcgcctgatc aacaacaacc ccgagatctt
          ========== ========== ========== ========== ==========
     1701 cggccccctg aagcgcccca tcgtggagtt cagcctggag gaccgccgca
          ========== ========== ========== ========== ==========
     1751 agctgaagat gaaggagctg cgcatccagc gcagcctgca gaagatgcgc
          ========== ========== ========== ========== ==========
     1801 agcaagcccg ccaccggcga gccccagaag ggccagcccg agcccgccaa
          ========== ========== ========== ========== ==========
     1851 ggaccagcag cagaaggccg cccagcacca caccgaggag cagagcaagg
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     1901 tgcccccga gcagaagcgc aaggccggca gcaccagctg gaccggcttc
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     1951 cagaccaagg ccgaggtgga gcaggtggag ctgcccgacg gcaagaagcg
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     2001 ccgcaaggtg ctggccctgc ccagccaccg cggccccaag atccgcctgc
          ========== ========== ========== ========== ==========
     2051 gcgacaaggg caaggtgaag cccgtgcacc ccaagaagcc caagccccag
          ========== ========== ========== ========== ==========
     2101 atcaaccagt ggaagcagga gaagcagcag ctgagcagcg agcaggtgag
          ========== ========== ========== ========== ==========
     2151 ccgcaagaag gccaagggca acaagaccga gacccgcttc aaccagctgg
          ========== ========== ========== ========== ==========
     2201 tggagcagta caagcagaag ctgctgggcc ccagcaaggg cgccccctg
          ========== ========== ========== ========== ==========
     2251 gccaagcgca gcaagtggtt cgacagc
          ========== ========== =======
HITS AT:  1-2277
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Kam 09/407,605

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MF Unspecified
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=> d l7 1-9 ibib abs hitrn

L7 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:869075 HCAPLUS
DOCUMENT NUMBER: 137:365327
TITLE: The green fluorescent proteins of Renilla and Ptilosarcus and their use as reporter molecules
INVENTOR(S): Anderson, David
PATENT ASSIGNEE(S): Rigel Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002090535	A1	20021114	WO 2002-US14766	20020509

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,

Search completed by David Schreiber 308-4292

CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2001-290287P P 20010510
US 2002-133973 A2 20020424
AB The invention relates to methods and compns. utilizing Renilla green fluorescent proteins (rGFP), and Ptilosarcus green fluorescent proteins (pGFP). In particular, the invention relates to the use of Renilla GFP or Ptilosarcus GFP proteins as reporters for cell assays, particularly intracellular assays, including methods of screening libraries, using rGFP or pGFP.
IT **475304-75-7**
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; green fluorescent proteins of Renilla and Ptilosarcus and their use as reporter mols.)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:568202 HCAPLUS
DOCUMENT NUMBER: 135:163357
TITLE: Expression of human codon modified DAF gene in mammalian cells for reducing transplant rejection
INVENTOR(S): Miyagawa, Shuji
PATENT ASSIGNEE(S): Nippon Meat Packers, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001211882	A2	20010807	JP 2000-22784	20000131

PRIORITY APPLN. INFO.: JP 2000-22784 20000131
AB This invention provides codon modified human complement decay-accelerating factor (DAF) gene which was expressed in transgenic mouse. The codon modification of transplant related genes is used to increase the expression of these genes in discordant transplant donor to reduce rejection reaction during transplants. The method described in this invention can be used to rejection reaction, blood coagulation and reperfusion of hypoemia.
IT **353572-08-4**
RL: BOC (Biological occurrence); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(nucleotide sequence; Expression of human codon modified DAF gene in mammalian cells for reducing rejection in transplant)

L7 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:98808 HCAPLUS
DOCUMENT NUMBER: 132:146634
TITLE: Anti-angiogenesis plasmids and delivery systems and their construction and use
INVENTOR(S): Min, Wang; Szymanski, Paul; Mehrens, Dorothy; Ralston, Robert; Sullivan, Sean
PATENT ASSIGNEE(S): Valentis, Inc., USA
SOURCE: PCT Int. Appl., 103 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000006759	A2	20000210	WO 1999-US16388	19990720
WO 2000006759	A3	20000622		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2337496	AA	20000210	CA 1999-2337496	19990720
AU 9953182	A1	20000221	AU 1999-53182	19990720
EP 1100941	A2	20010523	EP 1999-938769	19990720
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002524036	T2	20020806	JP 2000-562541	19990720

PRIORITY APPLN. INFO.: US 1998-94375P P 19980727
WO 1999-US16388 W 19990720

AB The present invention relates to gene delivery and gene therapy, and provides novel nucleic acid constructs for expression of anti-angiogenic agents in a mammal, formulations for delivery that incorporate a nucleic acid construct for expression, and methods for prepg. and using such constructs and formulations. In particular, this invention relates to plasmid constructs for delivery of therapeutic anti-angiogenic encoding nucleic acids to cells in order to modulate tumor activity, methods of using those constructs (including combination therapy with other agents, such as cytokines, preferably interleukin-12), as well as methods for prepg. such constructs. Plasmid vectors are constructed comprising synthetic genes having optimal codon usage for endostatin and angiostatin expression, under the control of a promoter specific for expression in endothelial cells (e.g., the enhancer of cytomegalovirus for human endothelin-1) and the growth hormone 3'-untranslated region with a deleted Alu repeat. A polymeric gene delivery system uses polyvinyl pyrrolidone to increase protein expression by protecting plasmid DNA fron nucleases and controlling the dispersion and retention of plasmid DNA in injected tissues. The plasmid delivery system also comprises a cationic lipid (DOPTMA), neutral lipid (cholesterol), and an isotonic carbohydrate (lactose) soln.

IT **258258-38-7**
RL: BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; anti-angiogenesis plasmids and delivery systems and their construction and use)

L7 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:614138 HCAPLUS
DOCUMENT NUMBER: 131:238811
TITLE: Expression vectors for interferon .alpha. genes for use in gene therapy
INVENTOR(S): Nordstrom, Jeff; Pericle, Federica; Rolland, Allain;

	Ralston, Robert
PATENT ASSIGNEE(S):	Genemedicine, Inc., USA
SOURCE:	PCT Int. Appl., 137 pp.
	CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9947678	A2	19990923	WO 1999-US5394	19990312
WO 9947678	A3	19991209		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2323604	AA	19990923	CA 1999-2323604	19990312
AU 9930003	A1	19991011	AU 1999-30003	19990312
EP 1064383	A2	20010103	EP 1999-911340	19990312
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
JP 2002506647	T2	20020305	JP 2000-536861	19990312

PRIORITY APPLN. INFO.:	US 1998-78654P	P	19980319
	WO 1999-US5394	W	19990312

AB Plasmid expression constructs for mammalian interferon .alpha. genes that can be used in gene therapy and methods for delivering them are described. These constructs can be used in the treatment of cancer, including combination therapy with other agents, such as cytokines, preferably IL-12. Constructs using a cytomegalovirus promoter, a synthetic 5'-intron and the 3'-UTR of the human growth hormone gene are described. The interferon .alpha. genes may have its codon usage altered to maximize or increase expression. Direct administration of a mouse interferon .alpha.4 gene to renal cell carcinomas and mammary cell adenocarcinomas was shown to inhibit tumor growth, and bring about complete complete regression in some cases. The treatment also induced long-lasting immunity to secondary tumor challenges.

IT **207241-26-7**
RL: BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(nucleotide sequence; expression vectors for interferon .alpha. genes for use in gene therapy)

L7 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:	1998:550439 HCAPLUS
DOCUMENT NUMBER:	129:185076
TITLE:	IL-2 gene expression, liposome delivery system, and uses
INVENTOR(S):	Ralston, Robert; Muller, Susanne; Mumper, Russ; Munger, William; Bruno, Maria
PATENT ASSIGNEE(S):	Genemedicine, Inc., USA
SOURCE:	PCT Int. Appl., 77 pp.
	CODEN: PIXXD2
DOCUMENT TYPE:	Patent

Search completed by David Schreiber 308-4292

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9834952	A2	19980813	WO 1998-US2221	19980209
WO 9834952	A3	19990114		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6034072	A	20000307	US 1998-12366	19980123
AU 9862692	A1	19980826	AU 1998-62692	19980209
EP 975780	A2	20000202	EP 1998-904943	19980209
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001511647	T2	20010814	JP 1998-534889	19980209

PRIORITY APPLN. INFO.:
US 1997-39709P P 19970210
US 1998-12366 A 19980123
WO 1998-US2221 W 19980209

AB Plasmid expression systems for delivery of DNA coding sequences in liposomes to a mammal are described which provide expression of human IL-2 for therapy of cancers and other diseases. Also described are particular lipid/DNA delivery systems having advantageous characteristics of size, charge ratio, and proportion of supercoiled DNA, and methods of prepg. and using such delivery systems for treatment.

IT **211681-52-6**, DNA (synthetic clone pIL0550B gene IL-2)
RL: BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(nucleotide sequence; IL-2 gene expression, liposome delivery system, and uses)

L7 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:398430 HCAPLUS
DOCUMENT NUMBER: 129:64088
TITLE: Insulin-like growth factor I (IGF-I) expression vector for gene therapy
INVENTOR(S): Coleman, Michael; Schwartz, Robert; Demayo, Francesco J.
PATENT ASSIGNEE(S): GeneMedicine, Inc., USA; Baylor College of Medicine
SOURCE: PCT Int. Appl., 116 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9824922	A1	19980611	WO 1997-US21852	19971201
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,				

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9853662	A1	19980629	AU 1998-53662	19971201
EP 943003	A1	19990922	EP 1997-950737	19971201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001505435	T2	20010424	JP 1998-525696	19971201
US 2003018984	A1	20030123	US 2001-861101	20010518

PRIORITY APPLN. INFO.:
US 1996-31539P P 19961202
US 1997-974572 A 19971119
WO 1997-US21852 W 19971201

AB This invention relates to gene delivery and expression, including gene therapy, by using vectors which encode stable mRNA and methods of using such vectors. In particular, this invention relates to vectors which establish controlled expression of recombinant IGF-I genes within tissues at certain levels. The vector includes a 5' flanking region which includes necessary sequences for expression of a nucleic acid cassette, a 3' flanking region including a 3' UTR and/or 3' NCR, and a linker which connects the 5' flanking region to a nucleic acid sequence. The linker has a position for inserting a nucleic acid cassette. The linker does not contain the coding sequence of a gene that the linker is naturally assocd. with. The 3' flanking region is 3' to the position for inserting the nucleic acid cassette. The expression vectors of the present invention can also be regulated by a regulatory system and/or constructed with a coating. Expression plasmids contg. chicken skeletal muscle .alpha.-actin gene promoter and first intron, human IGF-I cDNA and human growth hormone gene 3'-UTR and poly(A) signal were prepd. Replacement of skeletal muscle .alpha.-actin gene 3'-UTR of prior art plasmids with the 3'-UTR of human growth hormone (as above) resulted in increased delivery of IGF-I from skeletal muscle to systemic circulation in both transgenic animal (mouse) and non-viral gene therapy paradigms. The vector was nontoxic in safety/toxicol. studies in dogs. Use of the vector in treatment of diabetes (in rats) and (calf) muscle disuse atrophy was demonstrated.

IT **209056-07-5**
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; insulin-like growth factor I expression vector for gene therapy)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:	1998:268632 HCAPLUS
DOCUMENT NUMBER:	129:50507
TITLE:	Polycistronic expression constructs for gene therapy using interleukin 12 genes and their delivery by liposomes
INVENTOR(S):	Nordstrom, Jeff; Freimark, Bruce; Deshpande, Deepa
PATENT ASSIGNEE(S):	Genemedicine, Inc., USA; Nordstrom, Jeff; Freimark, Bruce; Deshpande, Deepa
SOURCE:	PCT Int. Appl., 105 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817814	A2	19980430	WO 1997-US18832	19971010
WO 9817814	A3	19980827		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9749081	A1	19980515	AU 1997-49081	19971010
EP 931156	A2	19990728	EP 1997-911788	19971010
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001503258	T2	20010313	JP 1998-519520	19971010
US 2002119940	A1	20020829	US 2001-754014	20010103

PRIORITY APPLN. INFO.:			
US 1996-28687P	P	19961018	
US 1997-948958	B1	19971010	
WO 1997-US18832	W	19971010	

AB Plasmid expression vectors for delivery of genes for a heterooligomeric proteins that ensure coordinated expression of the genes are described for use in gene therapy. In particular, these vectors use synthetic introns and 5'- and 3'-untranslated regions to control expression. These sequences are designed to have good fits with consensus sequences for important functional sequences such as Kozak boxes and intron cleavage and splice sites. Also described are particular lipid/DNA delivery systems having advantageous characteristics of size, charge ratio, and proportion of supercoiled DNA, and methods of prepg. and using such delivery systems for treatment or as immunization adjuvants. Optimization expts. are described. Studies with a guinea pig model of asthma showed that liposomes of the expression cassette introduced into the bronchi could be used to reduce the inflammatory response.

IT **207241-26-7**
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; polycistronic expression constructs for gene therapy using interleukin 12 genes and their delivery by liposomes)

L7 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:65983 HCAPLUS
DOCUMENT NUMBER: 128:150393
TITLE: Purification and recombinant production of human telomerase subunits and their applications for drug screening and therapy
INVENTOR(S): Cao, Zhaodan
PATENT ASSIGNEE(S): Tularik, Inc., USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9801543	A1	19980115	WO 1997-US12297	19970708

W: AU, CA, JP
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

US 5747317	A	19980505	US 1996-676967	19960708
AU 9738829	A1	19980202	AU 1997-38829	19970708
US 5888747	A	19990330	US 1998-72270	19980504
PRIORITY APPLN. INFO.:			US 1996-676967	19960708
			WO 1997-US12297	19970708

AB The invention provides methods and compns. relating to a human telomerase and related nucleic acids, including 4 distinct human telomerase subunit proteins called p140, p105, p48 and p43 having human telomerase-specific activity. Human telomerase p105 subunit cDNA contains an open reading frame encoding 759 amino acids. The proteins may be produced recombinantly from transformed host cells from the disclosed telomerase encoding nucleic acids or purified from human cells. Also included are human telomerase RNA components, as well as specific, functional derivs. thereof. The invention provides isolated telomerase hybridization probes and primers capable of specifically hybridizing with the disclosed telomerase gene, telomerase-specific binding agents such as specific antibodies, and methods of making and using the subject compns. in diagnosis, therapy and in the biopharmaceutical industry.

IT **202485-81-2**
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(nucleotide sequence; purifn. and recombinant prodn. of human telomerase subunits and their applications for drug screening and therapy)

L7 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1998:65982 HCAPLUS
DOCUMENT NUMBER: 128:151114
TITLE: Purification and recombinant production of human telomerase subunits and their applications for drug screening and therapy
INVENTOR(S): Collins, Kathleen
PATENT ASSIGNEE(S): Regents of the University of California, USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 5770422	A	19980623	US 1996-676974	19960708
AU 9737281	A1	19980202	AU 1997-37281	19970708
US 5917025	A	19990629	US 1998-98487	19980616
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AB The invention provides methods and compns. relating to a human telomerase

and related nucleic acids, including 4 distinct human telomerase subunit proteins called p140, p105, p48 and p43 having human telomerase-specific activity. Human telomerase p105 subunit cDNA contains an open reading frame encoding 759 amino acids. The proteins may be produced recombinantly from transformed host cells from the disclosed telomerase encoding nucleic acids or purified from human cells. Also included are human telomerase RNA components, as well as specific, functional derivs. thereof. The invention provides isolated telomerase hybridization probes and primers capable of specifically hybridizing with the disclosed telomerase gene, telomerase-specific binding agents such as specific antibodies, and methods of making and using the subject compns. in diagnosis, therapy and in the biopharmaceutical industry.

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RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)

(nucleotide sequence; purifn. and recombinant prodn. of human telomerase subunits and their applications for drug screening and therapy)